



PTO/SB/08a/b (07-05)

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Substitute for form 1449A/B/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)				<b>Complete If Known</b>	
				Application Number	10/528,381
				Filing Date	June 1, 2005
				First Named Inventor	Frank Kenneth Crundwell
				Art Unit	N/A
				Examiner Name	Not Yet Assigned
Sheet	1	of	2	Attorney Docket Number	04634/0202652-US0

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number Number-Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
LS	AA*	US-6,110,253-B1	08-29-2000	Kohr et al.	
	AB*	US-5,873,927	02-23-1999	Schaffner et al.	
	AC*	US-6,207,443-B1	03-27-2001	King	
	AD*	US-5,030,279-B1	07-09-1991	Krauth	
	AE*	US-5,779,762	07-14-1998	Kohr et al.	
	AF*	US-5,985,221	11-16-1999	Knecht et al.	
	AG*	US-5,763,259	06-09-1998	Panos et al.	
	AH*	US-5,612,431	03-18-1997	Waddell et al.	
	AI*	US-6,277,341	08-21-2001	Pinches et al.	
	AJ*	US-5,196,052	03-23-1993	Gross et al.	
	AK*	US-5,834,294	11-10-1998	James A. Brierley	
	AL*	US-6,149,711	11-21-2000	Lane	

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		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)	MM-DD-YYYY			
LS	BA	WO-WO0071763	11-30-2000			✓
↓	BB	WO-WO03042604	05-22-2003			✓
	BC	WO-WO02070758	09-12-2002			✓
	BD	WO-WO0136693	05-25-2001			✓
	BE	WO-WO03068999	08-21-2003			✓
	BF	WO-WO0229124	04-11-2002			✓
	BG	WO-WO0202832	01-10-2002			✓
	BH	WO-WO03010295	02-06-2003			✓
	BI	WO-WO02070757	09-12-2002			✓
	BJ	WO-WO0144519	06-21-2001			✓
	BK	WO-WO0118264	03-15-2001			✓
	BL	WO-WO03006696	01-23-2003			✓

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NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
LS	CA	David G. Dixon, "Analysis of heat conservation during copper sulphide heap leaching", Hydrometallurgy 58 (2000) pp. 27-41.	
LS	CB	G. Zarate, et al., "The metallurgy of the Mantoverde Project", Hydrometallurgy 39 (1995) 307-319.	
LS	CC	C.L. Brierley, "Bacterial succession in bioheap leaching", Hydrometallurgy 59 (2001), pp. 249-	
(W:1046 3410202)		/Laura Schuberg/	Date Considered 01/08/2007



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		255.	
LS	CD	Bartlett, R.W. Simulation of ore heap leaching using deterministic models Hydrometallurgy, vol 29 pp 231-260, 1992	
	CE	Braun, R.L., Lewis, A.E., Wadsworth, M.E., In-place leaching of primary sulphide ores: laboratory leaching data and kinetics model. Solution Mining Symposium, AIME, pp 295-323, 1974	
	CF	Davis, G.B., Doherty, G., Ritchie, A.I.M., A model of oxidation in pyretic mine wastes: part 2 - Comparison of numerical and approximate solutions. Applied Mathematical Modelling vol 10 pp 323, 329, 1986	
	CG	Davis, G.B., Ritchie, A.I.M. A model of oxidation in pyrite mine wastes: part 1 - equations and approximate solutions. Applied Mathematical Modelling vol 10 pp314-323, 1986	
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	CI	Dixon, D.G. Analysis of heat conservation during copper sulphide heap leaching. Hydrometallurgy vol 58 pp 27-41, 2000	
	CJ	Roman, R.J., Olsen, C. Theoretical scale-up of heap leaching. In F.F. Aplan, W.A. McKinney, and A.D. Pernicelli, editors, Solution Mining Symposium, pp 211-229, AIME, 1979.	
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	CM	Pantelis, G., Ritchie, A.I.M., Optimizing oxidation rates in heaps of pyretic material. Biohydrometallurgical Technologies, pp 731-738	
✓	CN	Ritchie, A.I.M. Optimization of biooxidation heaps. In Rawlings, D.E. editor, Biomining, theory, microbes, and industrial process. Chapter 10 Pp 201- 226. Springer-Verlag, 1997	

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		Country Code <sup>4</sup> -Number <sup>5</sup> -Kind Code <sup>6</sup> (if known)				
LS	BA	AU-6083790	02-14-1991	AUSTRALIAN NUCLEAR SCIENCE TEC		✓

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LS	CA	Cathes, L.M. and Apps, J.A. A model of the dump leaching process that incorporates oxygen balance, heat balance, and air convection, Metallurgical Trans. Vol 6B pp 617-624, 1975		
LS	CB	Moreno, L., Martinez, J., Casas, J. Modelling of bioleaching copper sulphide in heaps or dumps. In: R. Amils, A. Ballester editors, 16th International Biohydrometallurgy Symposium, IBS 99, pages 443-451, 1999		

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LS	CA	Muir, L. and Brierley, J. The use of large scale test facilities in studies of the role of microorganisms in commercial leaching operations. Metallurgical Applications of bacterial leaching and related microbiological phenomena. L. Murr, A. Torma and J Brierley. NewYork, Academic Press:491-520, 1978.	
	CB	Boon, M. and J.J Heijnen. Gas-liquid mass transfer phenomena in bio-oxidation experiments of sulphide minerals. Hydrometallurgy 48(2):187-204, 1998.	
	CC	Cathles, L.M. and Apps, J.A. A model of the dump leaching process that incorporates oxygen balance, heat balance, and air convection. Metallurgical Trans. Vol 6B pp 617- 624, 1975	
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	CF	Muir, L. and Berry, V. Observations of a natural thermophilic microorganisms in the leaching of a large, experimental, copper-bearing waste body. Met.Trans. B 10B:523-531, 1979.	
	CG	Ross, G. Biohydrometallurgy. McGraw-Hill 1990.	

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